

Version With Marking to Show Changes Made"

In the Claims:

1. (Amended) A centrifuge for accepting an input mixture and for separating a light material that is within the mixture from a heavy material that is within the mixture, comprising:

a housing having a central member rotatable on an axis of rotation and at least one arm assembly, said at least one arm assembly having,

an outer tube having a first end operably connected to said central member, and a closed second end extending away from said central member;

an intermediate tube operably connected to said central member, said intermediate tube located within said outer [housing] tube defining a first annular flow path between said outer [housing] tube and said intermediate tube; and

an inner tube operably connected to said central member, said inner tube located within said intermediate tube defining a second annular flow path between said intermediate tube and said inner tube and a tubular flow path within said inner tube;

an input mixture flow path for receiving said input mixture, said input mixture flow path formed in said housing and communicating with one of said first and second annular flow paths;

a light material flow path communicating with the other of said first and second annular flow paths; and

a heavy material flow path communicating with said tubular flow path.

23. (Amended) A centrifuge for accepting an input mixture and for separating a light material that is within the input mixture from a heavy material that is within the input mixture, comprising:

a central member rotatable on an axis of rotation;

a first arm assembly mounted on one side of said central member;

a second arm assembly mounted on an opposite side of said central member;

said first and second arm assemblies rotatable in a plane that extends generally perpendicular to said axis of rotation;

each of said first and second arms having;

an outer housing having a closed outer end and an inner end mounted to said central member;

an intermediate tube having an open outer end and an inner end mounted to said central member;

an inner tube having an open outer end and an inner end mounted to said central member;

said outer housing, intermediate tube and inner tube being concentrically arranged;

said inner tube having a given length;

said intermediate tube having a length that is less than said given length; and

said outer end of said outer housing being physically spaced from said outer end of said intermediate tube and from said outer end of said inner tube;

an input mixture flow path communicating with a cylindrical space between said intermediate tube and said inner tube;

✓ a heavy material flow path communication with a space within said inner tube;

✓ a light material flow path communication with a cylindrical space between said intermediate tube and said outer housing;

a first conveyer screw located within said inner tube of said first arm assembly;

a second conveyer screw located within said inner tube of said second arm assembly;

✓ first drive means connected to effect rotation of said body member and said first and second arm assemblies about said axis of rotation; and

second speed controllable drive means connected to effect rotation of said first and second conveyer screws.

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